Application No: 09/201,072 Confirmation No. 1102

Filing Date: November 30, 1998

Group Art Unit: 3739

Examiner: D. Shay

Atty Docket No: 101327-125 (ROE-040C5)

## **Clean Copy Of The Pending Claims**

A surgical system comprising:

a hollow elongate instrument, having at least one lumen suitable for receiving an optical fiber, and being maneuverable to provide a conduit for transmission of laser energy to a surgical site; and

a flexible, elongate fiber for conducting laser energy from a proximal end of said fiber to a surgical site at a distal end of said fiber, the proximal end suitable for receiving laser energy, and said fiber being a silica fiber having a low hydroxyl ion content to reduce absorption of laser energy at a wavelength of about 1.4-2.2 micrometers.

45. The system of claim 44, wherein said fiber is suitable for coupling with and conducting energy of a Holmium-doped Yttrium-Aluminum-Garnet laser.

A6. The system of claim 44, wherein said fiber is suitable for coupling with and conducting energy of a Erbium-doped Yttrium-Aluminum-Garnet laser.

47. The system of claim 44, wherein said fiber is suitable for coupling with conducting energy from a Thulium-doped Yttrium-Aluminum-Garnet laser.

48. The system of claim 44, wherein said fiber is suitable for coupling with and conducting energy from a Holmium-doped Yttrium-Lithium-Fluoride laser.

49. The system of claim 44, wherein said fiber is suitable for coupling with and conducting energy from a Erbium-doped Yttrium-Lithium-Fluoride laser.

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## Clean Copy Of The Pending Claims (continued)

- 50. The system of claim 44, wherein the said fiber is suitable for conducting pulsed laser energy.
- 31. The system of claim 44, wherein the said fiber is suitable for conducting pulsed wave laser energy sufficient to remove biological tissue by vaporization.
- 52. The system of claim 44, wherein said fiber is suitable for conducting laser energy with a pulse width of 0.2-5 milliseconds.
- 53. The system of claim 44, wherein said fiber is suitable for conducting pulsed laser energy at a repetition rate of about 1 to about 10 pulses per second.
- 54. The system of claim 44, wherein said fiber is suitable for delivery of energy to a surgical site of at least 0.57 millijoules per pulse.
- (55. The system of claim 44 wherein the fiber is suitable for conducting continuous wave radiation.
  - 56. The system of claim 35 wherein the fiber is suitable for to photocoagulate tissue.
  - 57. The system of claim 44 wherein the hollow elongate instrument is a catheter.